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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/665,156	09/18/2003	William Lin	07844-610001	6282
²¹⁸⁷⁶ FISH & RICH <i>A</i>	7590 10/27/200 ARDSON P.C.	8	EXAMINER	
P.O. Box 1022	S, MN 55440-1022		NGUYEN, MAIKHANH	
WIINNEAPOLI	13, WIN 33440-1022		ART UNIT	PAPER NUMBER
			2176	
			NOTIFICATION DATE	DELIVERY MODE
			10/27/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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Office Action Summary		Арр	lication No.	Applicant(s)	Applicant(s)			
		10/6	665,156	LIN, WILLIAM	LIN, WILLIAM			
		Exa	niner	Art Unit				
		Maik	hanh Nguyen	2176				
<i>The</i> Period for Rep	MAILING DATE of this communi	cation appears o	on the cover sheet	with the correspondence a	ddress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)⊠ Resn	onsive to communication(s) file	d on 23 July 20	าย					
· <u> </u>		b)⊠ This action						
′ _		/ 		atters prosecution as to th	e merits is			
·—	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
0,000	a in accordance with the practic	o and Expan	.o	.5. 11, 100 0.0.210.				
Disposition of	Claims							
4)⊠ Clain	n(s) <u>1-4,8,9,11-13,15-19,23,24,2</u>	26-28,30,33-38,	<i>40,41,43 and 44</i> is	s/are pending in the applic	ation.			
4a) O	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)∐ Clain	n(s) is/are allowed.							
6)⊠ Clain	n(s) <u>1-4, 8, 9, 11-13, 15-19, 23, </u>	<i>24, 26-28, 30, 3</i>	3-38, 40, 41, 43, 6	and 44 is/are rejected.				
·	n(s) is/are objected to.							
·	n(s) are subject to restric	tion and/or elect	ion requirement.					
Application Pa	apers							
<u></u>		- Evaminar						
•	pecification is objected to by the		or b) Dobiootod t	o by the Eveniner				
•	rawing(s) filed on is/are:		· -	-				
	cant may not request that any object							
	cement drawing sheet(s) including		•		, ,			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under	35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notice of Dr 3) Information	ferences Cited (PTO-892) aftsperson's Patent Drawing Review (P Disclosure Statement(s) (PTO/SB/08) /Mail Date	TO-948)	Paper N	w Summary (PTO-413) o(s)/Mail Date of Informal Patent Application				

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DETAILED ACTION

1. This action is responsive to the Amendment filed 07/23/2008.

Claims 1-4, 8, 9, 11-13, 15-19, 23, 24, 26-28, 30, 33-38, 40, 41, 43, and 44 are currently pending. Claims 1, 13, 16, 28, and 33 are independent claims.

Applicant has amended the specification to overcome the 35 USC § 101 rejections as detailed in the previous office action. The 35 USC § 101 rejections regarding Claims 16-19, 23, 24, 26-28, 30, 41, and 43 are withdrawn.

The Examiner notes that the term "machine-readable medium" (Claims 16 and 28) should be changed to "machine readable storage device" since the specification fails to provide proper antecedent basis for "machine-readable medium" as currently presented in the claims.

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Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-4, 8, 9, 11-13, 15-19, 23, 24, 26-28, 30, 33-38, 40, 41, 43, and 44 are rejected under U.S.C. 103(a) as being unpatentable over **Jones et al**. (US 20040006744, filed 06/2002) in view of **Lewis et al**. (US 6611802, filed 06/1999).

As to claim 1:

Jones teaches a computer-implemented method and a computer program for correcting (e.g., changes) an XML electronic document (e.g., an XML document) [see the Abstract], comprising:

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identifying a validation error in the XML electronic document [See ¶ ¶0034, 0039 0041: identifies the error within XML document 410 with underlining ... displaying the indicators of the error within XML document 410 and parallel tree 420 is described in the discussion of FIG. 8], the validation error being a structural aspect of the XML electronic document that fails to conform to rules of an XML document type definition or an XML schema [See ¶¶ 0008, 0029, 0034, 0039, and 0040], the rules being associated the XML electronic document [See ¶¶ 0030, 0031, 0036, Fig. 3 and associated text: word-processor 120 has its own namespace and a schema for use with XML documents associated with word-processor 120. The set of tags and attributes defined by the schema for word-processor 120 may define the format of an XML document to such an extent that it is referred to as its own markup language], the validation error being of a particular kind [See ¶¶ 0034, 0035, and 0039: Error data 235 includes data returned to the word-processor 120 from XML validation engine 225 when an error has occurred with relation to elements validated by XML

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selecting a suggestion template according to the particular kind of the
 validation error, and using the selected suggestion template to suggest

simplifies the analysis that must be performed to rectify the error];

validation engine 225 ... Designating the error as a certain type of error

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to a user suggested corrections that are predefined for the particular kind of validation error, the selected suggestion template including logic necessary to implement the suggested corrections to the document to correct the identified non-conforming structure aspect [See ¶¶ 0039, 0040, 0043-0045 and Fig. 4: The error is represented by error element 432 which is a zip code ... the "zip" element is invalid since "zip" was placed as a child of "street". ... Error display 430 lists detailed information regarding the error, such as the error type. Error display 430 may also include suggested actions for the user in attempting to rectify the error. The suggested actions may be interactive, allowing a user to pick from a list of possible solutions to the presence of the error];

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• receiving an input selecting one of the suggested corrections; and using the logic in the selected suggestion template to apply the correction selected by input to the XML electronic document [See ¶¶] 0039 – 0041 and Fig. 4: "Error display 430 may also include suggested actions for the user in attempting to rectify the error. The suggested actions may be interactive, allowing a user to pick from a list of possible solutions to the presence of the error ... the XML document is being edited and a change has occurred. A "change" refers to inserting, modifying, or deleting XML elements within the XML document, or changing the textual contents of the non-native XML

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elements"; See also, ¶¶ 0067: an error display is presented to the user in response to the right-click that gives detail information on the error that occurred and instruction for rectifying the error].

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Jones does not specifically teach "selecting a suggestion template from among multiple suggestions templates."

Lewis selecting a suggestion template from among multiple suggestions templates [See Fig. 3E and Col.9, lines 11-14: *By clicking on the edit grammar rules button 25, the user can invoke the grammar rules control interface 9 for specifying the exact grammar rules 27 to be considered by the grammar checker 21*; see also, Fig. 4 and Col.11, lines 3-17: *following the path 150 to block 153 in which the user can select proofreading criteria for use with the marking tool 14.*Following path 152 to block 155, the user can begin the marking phase of the proofreading process by playing back the dictated text contained in the electronic document. Following path 154 to block 157, while playing back the dictated text, either the user or the preferred system 1 can mark textual errors identified during the playback step 155. Having identified and marked the textual errors in step 157, following path 156 to block 159, the user can edit, correct or ignore the marked textual errors].

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Jones with Lewis because it would have provided the capability for enabling validation of an extensible markup language document and reporting of schema violations in real time as a user edits the document.

As to claim 2:

Jones teaches identifying, among other things, mismatched structural aspect of the XML_electronic document [See ¶ 0034: a missing contents error].

As to claim 3:

Jones teaches the rules include one or more rules stored separately from and referred to in the XML electronic document [See ¶ 0030: a schema for use with XML documents associated with word-processor 120 ... define the format of an XML document to such an extent that it is referred to as its own markup language ... adhere to the rules of other markup languages].

As to claim 4:

Jones teaches the rules include one or more rules stored in the XML electronic document [See ¶ 0030: a schema for use with XML documents associated with word-processor 120 ... define the format of an XML document to such an

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extent that it is referred to as its own markup language ... adhere to the rules of other markup languages].

As to claim 8:

Jones teaches the rules include one or more rules defined in an XML DTD [See ¶ 0030: a schema for use with XML documents associated with word-processor 120 ... define the format of an XML document to such an extent that it is referred to as its own markup language ... adhere to the rules of other markup languages].

As to claim 11:

Jones teaches requesting information from a user about the identified structural aspect [See ¶ 0030 and Fig. 5 & associated text: The set of tags and attributes defined by the schema for word-processor 120 may define the format of an XML document to such an extent that it is referred to as its own markup language, a Word-Processor Mark-up Language (native XML). The native XML is supported by word-processor 120 and may adhere to the rules of other markup languages while creating further rules of its own. The native XML provides a markup language that includes rich display information normally associated with word processing, such as textual formatting (e.g., bold, italics, underlining), paragraph formatting (e.g., line spacing, justification, and the like), tabular formatting (e.g., table rows and columns), and the like. The native XML

may then be used in conjunction with a user-defined schema that adds more substantive structure to the document] and based on input received in response to the request, suggesting to the user one or more changes that would correct the identified structural aspect [See ¶¶ 0067-0069: an error display is presented to the user in response to the right-click that gives detail information on the error that occurred and instruction for rectifying the error ...a determination is made whether the user is hovering the mouse pointer over an icon in the parallel tree].

As to claim 12:

Refer to the discussion of claim 1 above for rejection. Additionally, Jones teaches bringing the entire XML electronic document into conformance with the rules [See ¶ 0030: The set of tags and attributes defined by the schema for word-processor 120 may define the format of an XML document to such an extent that it is referred to as its own markup language, a Word-Processor Mark-up Language (native XML). The native XML is supported by word-processor 120 and may adhere to the rules of other markup languages while creating further rules of its own. The native XML provides a markup language that includes rich display information normally associated with word processing, such as textual formatting (e.g., bold, italics, underlining), paragraph formatting (e.g., line spacing, justification, and the like), tabular formatting (e.g., table rows and columns), and the like. The native XML may

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then be used in conjunction with a user-defined schema that adds more substantive structure to the document].

As to claim 13:

The rejection of claim 1 above is incorporated herein in full. Additionally, Jones teaches recursively validating a parent element of the markup language document by: (i) validating attributes of the parent element; (ii) validating a content model of the parent element; and (iii) recursively validating one or more children of the parent element [See ¶¶ 0031-34 and 0044-0052: When validated, the non-native XML elements are examined as to whether they conform to non-native XML schema 215... a schema states what tags and attributes are used to describe content in an XML document, where each tag is allowed, what types of contents can appear within elements, and which elements can appear within other elements, ensuring that the documentation is structured the same way ... The XML validation engine 225 is a module that is configured to maintain an element tree and validate the element tree against some schema ... the XML validation engine 225 may be passed an object that defines an element tree, such as one that corresponds to elements within the XML document 210, a pointer to a schema, such as non-native XML schema 215, and possibly the content of one or more elements of the element tree. With this information, the XML validation engine 225 validates the element tree against the schema and reports any violations to the calling process].

As to claim 15:

Jones teaches checking a root element against a DOCTYPE root tag specified

in the rules associated with the XML document; and allowing a user to retag the

root element using the DOCTYPE root tag [See ¶¶ 0050-0054 and 0060-0061].

As to claims 16-19, 23-24, and 26-27:

Refer to claims 1-4, 8-9, and 11-12 above. Claims 16-19, 23-24, and 26-27 are

the same as claims 1-4, 8-9, 11-12, except claims 16-19, 23-24, and 26-27 are

computer program product claims and claims 1-4, 8-9, 11-12 are method

claims.

As to claims 28 and 30:

Refer to claims 13 and 15 above. Claims 28 and 30 are the same as claims 13

and 15, except claims 28 and 30 are computer program product claims and

claims 13 and 15 are method claims.

As to claims 33-36 and 37:

Refer to claims 1-4 and 9 above. Claims 33-36 and 37 are the same as claims

1-4 and 9, except claims 33-36 and 37 are system claims and claims 1-4 and 9

are method claims.

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As to claims 38, 40, 41, 43, and 44:

Lewis teaches the template is implemented as a list of commands [See Figs.

3E and 4].

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to modify Jones with Lewis because it would have

provided the capability for enabling validation of an extensible markup

language document and reporting of schema violations in real time as a user

edits the document.

Claims 9 and 24 are rejected under U.S.C. 103(a) as being unpatentable over

Jones et al. in view of Lewis et al. as applied to claims 1 and 16 above and

further in view of Kuo et al. (US 2004/0268304, filed 06/2002).

As to claims 9 and 24:

The combination of Jones and Lewis does not specifically teach "suggesting a

plurality of changes to the user in an order determined by preferred user

preferences, the predefined user preferences including ranking particular

changes higher than other changes."

Kuo teaches suggesting a plurality of changes to the user in an order determined by preferred user preferences, the predefined user preferences including ranking particular changes higher than other changes [See ¶¶ 0048-0053, 0098, 0102, and 0106).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to combine Kuo with Jones as modified by Lewis because it would have provided the validity checking as warning/hints for correcting syntactic violations among other typically inaccurate context-sensitive guidance and hints.

Response to Arguments

3. Applicants' arguments filed 07/23/2008 have been fully considered but they are not persuasive.

Applicant argues in substance that "Jones merely provides "suggestions about how to possibly rectify the error," which is not a suggestion that includes the logic necessary to implement the suggested changes to a document in order to correct an identified non-conforming structural aspect in the document. In other words,

uggestions to possibly rectify an error do not disclose or suggest the capacity of the suggestion template to correct that particular error."

The Examiner disagrees. Jones' teaching "Error display 430 may also include suggested actions for the user in attempting to rectify the error" [See ¶0039] and "an error display is presented to the user in response to the right-click that gives detail information on the error that occurred and instruction for rectifying the error" [See ¶0067] covers the limitation as claimed.

Also, Applicant argues in substance that Harvey's templates do not include logic to apply the correction.

The Examiner agrees. The new reference, Lewis, is used to teach selecting a suggestion template from among multiple suggestions templates. Like the template disclosed by Jones, Lewis' template include logic to apply the correction (By clicking on the edit grammar rules button 25, the user can invoke the grammar rules control interface 9 for specifying the exact grammar rules 27 to be considered by the grammar checker 21) [See Col.9, lines 11-14 and Fig. 3E] "following the path 150 to block 153 in which the user can select proofreading criteria for use with the marking tool 14. Following path 152 to block 155, the user can begin the marking phase of the proofreading process by playing back the dictated text contained in the electronic document. Following path 154 to block

157, while playing back the dictated text, either the user or the preferred system

1 can mark textual errors identified during the playback step 155. Having

identified and marked the textual errors in step 157, following path 156 to block

159, the user can edit, correct or ignore the marked textual errors" [see Col.11,

lines 3-17 and Fig. 4].

Conclusion

4. The prior art made of record, listed on PTO 892 provided to Applicant is considered to have relevancy to the claimed invention. Applicant should review each identified reference carefully before responding to this office action to properly advance the case in light of the prior art.

Contact information

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Maikhanh Nguyen whose telephone number is (571) 272-4093. The examiner can normally be reached on Monday - Friday from 9:00am – 5:30 pm. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Doug Hutton can be reached at (571) 272-4137.

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The fax phone number for the organization where this application or

proceeding is assigned is 571-273-8300.

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800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Maikhanh Nguyen/ Examiner, Art Unit 2176

/Doug Hutton/
Doug Hutton
Supervisory Primary Examiner
Technology Center 2100